

Title (en)
CODING AND MODULATION APPARATUS USING NON-UNIFORM CONSTELLATION

Title (de)
CODIERUNGS- UND MODULATIONSVORRICHTUNG UNTER VERWENDUNG VON UNGLEICHFÖRMIGER KONSTELLATION

Title (fr)
APPAREIL DE CODAGE ET DE MODULATION UTILISANT UNE CONSTELLATION NON UNIFORME

Publication
EP 3320633 B1 20190918 (EN)

Application
EP 16738392 A 20160707

Priority
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Abstract (en)
[origin: WO2017005874A1] A coding and modulation apparatus and method are presented, particularly for use in a system according to IEEE 802.11. The apparatus comprises an encoder configured to encode input data into cell words according to a low density parity check code, LDPC, and a modulator configured to modulate said cell words into constellation values of a non-uniform constellation and to assign bit combinations to constellation values of the used non-uniform constellation, wherein said modulator is configured to use, based on the total number N of constellation points of the constellation and the code rate R, a particular non-uniform constellation, which has been optimized using the peak-to-average power ratio (PAPR).

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